CMORPH global precipitation analyses (john.janowiak@noaa.gov)

- A Very high time-space resolution global (60N-60S) precipitation analyses beginning Dec 1, 2002 that are acquired by merging passive microwave derived precipitation estimates that use IR data to move and morph the precipitation features.
- B Satellite IR & passive microwave estimates of precipitation.
- C Global (60N-60S)
- D $\frac{1}{2}$ hourly, 0.072 x 0.072 degrees lat/lon (~8 km at the equator)
- E December 1, 2002 -present
- F updated in real-time
- G Most recent 10-days available at: ftp://ftpprd.ncep.noaa.gov/pub/precip/global_CMORPH
 - H- Used for research purposes and for real-time monitoring.
- 2) Scientific Stewardship Activities Required for Continued Production of the Climate-Quality Data Set

A-Extensive work has been and continues to be done to:

- 1. Merge the various passive microwave-derived precipitation estimates and to normalize them to a standard to avoid discontinuities.
- 2. Develop models to reduce viewing angle dependencies particularly for the AMSU-B sensor
- 3. Troubleshoot snow & ice screens so that erroneous precip. Areas over snow covered surfaces are not interpreted as precipitation
- 4. Develop a model to reduce precipitation over semi-arid regions where precipitation can evaporate substantially before reaching the surface
- B- Bias is known to be substantial over semi-arid regions in satellite precipitation estimates and a model is being constructed to address that issue. A process to validate these (and other) estimates over the US, Australia and Europe provides bias information that has and will be useful for bias correction.
- C- No reprocessing is currently underway.
- D- See "A" above
- E- john.janowiak@noaa.gov

3) Transition of ARC Project to Operational Center

Processing and archive only at NOAA Center; PI performing Sceintific Data Stewardship oversight as needed.